

**Technical Manual Insert**

**for**

**NAVSHIPS 362-1630  
WESTINGHOUSE T.M. 32-855-1C1**

**HOLD-IN**

**FOR**

**NAVY TYPE ACB-640R  
CIRCUIT BREAKER**

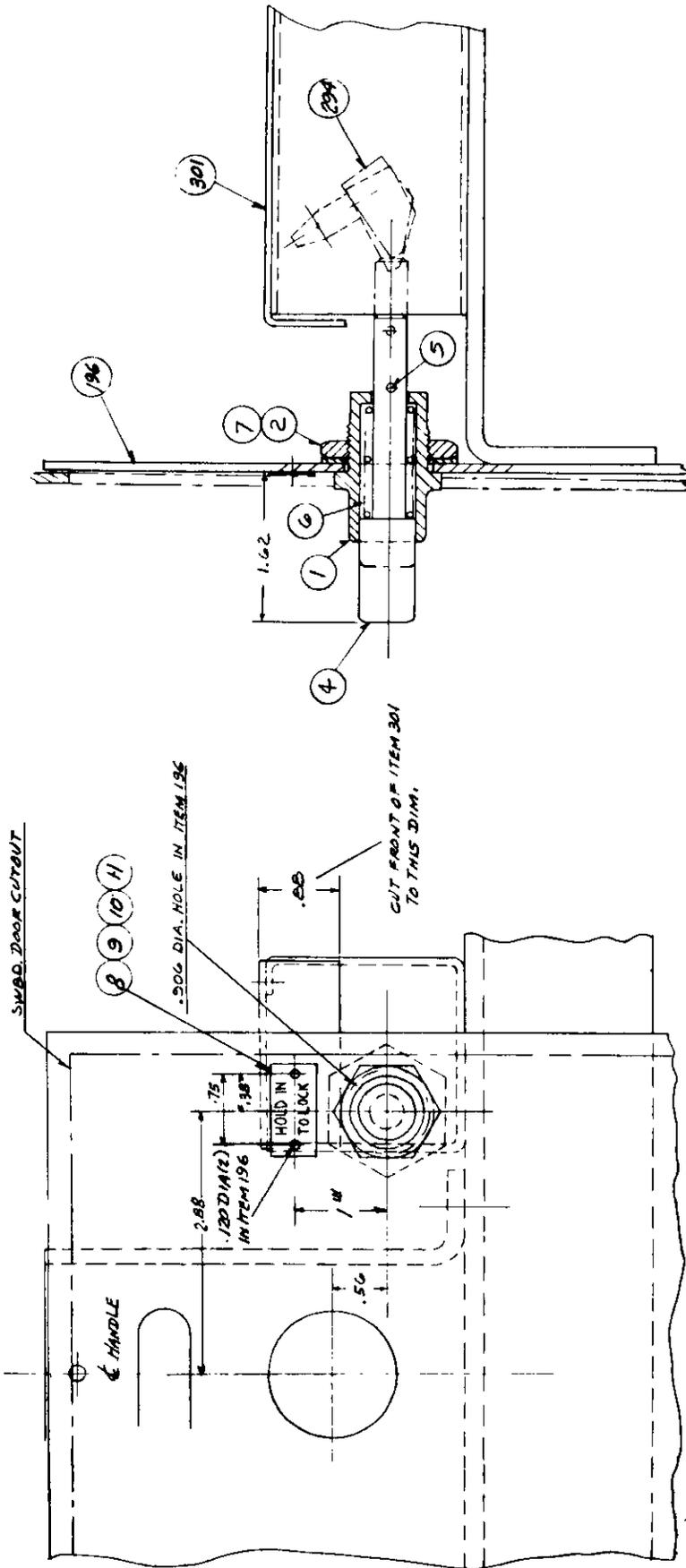
**WESTINGHOUSE TYPE DBN-406**



TECHNICAL MANUAL 32-855-14C1

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# ACB-640R CIRCUIT BREAKER



## LEGEND

- |    |            |     |                         |
|----|------------|-----|-------------------------|
| 1  | Bushing    | 8   | Nameplate               |
| 2  | Nut        | 9   | .112-2/0 Screws         |
| 4  | Plunger    | 10  | .112-2/0 Nuts           |
| 5  | Cotter Pin | 11  | .112 Lockwashers        |
| *6 | Spring     | 196 | Faceplate               |
| 7  | Lockwasher | 294 | Weight (Anti-shock-out) |
|    |            | 301 | Cover (Anti-shock-out)  |
- \*Repair Part

## **HOLD-IN**

### **FUNCTION**

The function of a hold-in device is to permit closing of a circuit breaker on overloads which exceed the overcurrent trip settings. The breaker will stay closed as long as the hold-in is depressed.

### **OPERATION**

Depressing plunger (4) rotates weight (294) counterclockwise which blocks plate (291) figure 1-2-8 from rotating counterclockwise. This restrains trip bar (240) from rising sufficiently to trip the breaker.

When plunger (4) is released, the breaker may trip if the overcurrent trip has never been allowed to reset.

### **REPAIR PARTS**

To replace spring (6), remove cotter pin (5) and plunger (4), replace spring and reassemble.

### **ADJUSTMENTS**

There is no need for adjustments unless some part has been bent and distorted. In this case the distorted part must be straightened.

### **INSTALLATION**

In some circumstances it will be necessary to add the hold-in to breakers now in service. Place breaker in the withdrawn position.

1. Drill .906 dia. hole and two .120 dia. holes in faceplate (196) as shown.
2. Cut off anti-shock-out cover (301) to .88 inch dimension as shown.
3. Check weights (294). They must face in opposite directions, and the weight in front of .906 dia. hole must be as shown. If necessary disassemble anti-shock-out device and reassemble correctly.
4. Assemble items (1) thru (11) as shown.

Check operation by closing breaker and depressing plunger (4). With a stick apply upward pressure on trip bar (240) and note that it is restrained sufficiently to prevent breaker tripping.

**Warning** - Keep hands free in case breaker should open.